

## EAST Search History

| Ref # | Hits  | Search Query   | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|-------|--|--|------------------|---------|---------------------|
| S1    | 8788  | (magnetic adj resonance) and (chip)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2007/09/16<br>17:59 |
| S2    | 28143 | (magnetic adj resonance) and (chip with magneto - resistance or "TMR" or "GMR")                            | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2007/09/16<br>18:00 |
| S3    | 383   | (magnetic adj resonance) and (chip with magneto-resistance or "TMR" or "GMR")                              | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2007/09/16<br>18:00 |
| S4    | 4     | (magnetic adj resonance) and (chip with (magneto-resistance or "TMR" or "GMR" or magneto near resistance)) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2007/09/16<br>18:51 |
| S5    | 317   | (magnetic adj resonance) and (on-chip)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2007/09/16<br>18:41 |
| S6    | 88    | (magnetic adj resonance) and (on-chip with (detect\$3 or sens \$3 or receiv\$3 or reception))              | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2007/09/16<br>18:07 |
| S7    | 3     | (magnetic adj resonance) and (on-chip near current near wire)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2007/09/16<br>18:44 |
| S8    | 5     | (magnetic adj resonance near4 on-chip)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2007/09/16<br>18:50 |

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| S9  | 353  | (chip with (magneto-resistance or "TMR" or "GMR" or magneto near resistance))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>18:52 |
| S10 | 2131 | (substrate with (magneto-resistance or "TMR" or "GMR" or magneto near resistance))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>19:11 |
| S11 | 114  | S9 and S10  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>18:52 |
| S12 | 30   | (substrate with (magneto-detect \$3 or magneto-sens\$3 or mangeto near detect\$3 or magneto near sens\$3))                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>21:06 |
| S13 | 2    | S12 and (sample)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>20:43 |
| S14 | 69   | S9 and (sample)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>20:43 |
| S15 | 1    | (magneto-detect \$3 or magneto-sens\$3 or mangeto near detect\$3 or magneto near sens\$3) and (chip with precess\$4 near4 spin) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>21:08 |

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| S16 | 1 | (magneto-detect\$3 or magneto-sens\$3 or mangeto near detect\$3 or magneto near sens\$3) and (on-chip with precess\$4 near4 spin)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>21:24 |
| S17 | 2 | (on-chip with precess\$4 near4 spin)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>21:09 |
| S18 | 2 | (on-chip same precess\$4 near4 spin)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>21:09 |
| S19 | 2 | (chip same precess\$4 near4 spin)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>21:09 |
| S20 | 7 | (US-6906793-\$ or US-6731100-\$ or US-6710879-\$ or US-6194900-\$ or US-7048890-\$ or US-6429640-\$). did. or (JP-03260906-\$).did. | USPAT; JPO   | OR | ON | 2007/09/16<br>21:24 |
| S21 | 3 | S20 and (magnet\$4-resist\$4 or magnet\$4 near resist\$3 or "TMR" or "GMR")   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>22:21 |
| S22 | 5 | S20 and (gradient)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>22:25 |
| S23 | 3 | S20 and (electron or coupled-spin or coupl\$3 near spin)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>22:26 |
| S24 | 3 | S20 and (electron or coupled-spin or coupl\$3 near spin or "ESR")   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/09/16<br>22:29 |

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| S25 | 874   | (spin near3 moment) and (electron or coupled-spin or coupl\$3 near spin or "ESR" or electron near spin near resonance)               | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2007/09/16 22:30 |
| S26 | 485   | S25 and (sample)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2007/09/16 22:30 |
| S27 | 560   | (spin near3 magnetic near moment) and (electron or coupled-spin or coupl\$3 near spin or "ESR" or electron near spin near resonance) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2007/09/16 22:31 |
| S28 | 299   | S27 and (sample)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2007/09/16 22:31 |
| S29 | 59    | (spin near3 magnetic near moment) and ("ESR" or electron near spin near resonance)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2007/09/16 22:45 |
| S30 | 41    | S29 and (sample)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2007/09/16 22:46 |
| S31 | 52    | (spin near3 magnetic near moment) and (coupled-spin or coupl\$3 near spin)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2007/09/16 22:46 |
| S32 | 33    | S31 and (sample)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2007/09/16 22:46 |
| S33 | 10079 | (324/300-322). OCLS.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2008/02/05 15:56 |

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| S34 | 419   | S33 and (magnet \$4-resist\$4 or magnet\$4 near resist\$3 or "TMR" or "GMR") | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/02/05<br>16:23 |
| S36 | 10079 | (324/300-322).<br>CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2008/02/05<br>21:24 |
| S37 | 419   | S36 and (magnet \$4-resist\$4 or magnet\$4 near resist\$3 or "TMR" or "GMR") | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/02/05<br>21:24 |
| S38 | 46    | S37 and (spin near3 magnetic near moment)                                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/02/05<br>21:24 |

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